

# INTERNATIONAL SEARCH REPORT

1 - 1st Application No  
PCT/US2004/023625

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01R13/658 H01R13/646 H01R9/03

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 311 041 A (NIPPON ELECTRIC CO) 12 April 1989 (1989-04-12) cited in the application the whole document -----	1-8, 10-18
Y	EP 0 308 092 A (G & H TECHNOLOGY) 22 March 1989 (1989-03-22) the whole document -----	1-18
Y	US 6 210 230 B1 (LAI CHIN-TE) 3 April 2001 (2001-04-03) the whole document -----	2,9
Y	EP 0 952 637 A (NORTHERN TELECOM LIMITED) 27 October 1999 (1999-10-27) the whole document -----	1
A	-----	1-18 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

11/11/2004

Name and mailing address of the ISA

European Patent Office, P.O. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Salojärvi, K

## INTERNATIONAL SEARCH REPORT

PCT Application No  
PCT/US2004/023625

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 508 255 A (MOLEX INC) 14 October 1992 (1992-10-14) the whole document -----	
A	EP 0 343 561 A (BURNDY CORP) 29 November 1989 (1989-11-29) the whole document -----	
A	US 5 221 215 A (TAN HAW-CHAN ET AL) 22 June 1993 (1993-06-22) the whole document -----	
A	US 5 975 953 A (PETERSON ERIC C) 2 November 1999 (1999-11-02) the whole document -----	
A	DE 91 13 003 U (MOLL, HANS) 11 June 1992 (1992-06-11) the whole document -----	

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/US2004/023625

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0311041	A	12-04-1989	JP JP CA DE DE EP US	1095472 A 8021450 B 1292527 C 3880608 D1 3880608 T2 0311041 A2 5026306 A	13-04-1989 04-03-1996 26-11-1991 03-06-1993 23-09-1993 12-04-1989 25-06-1991
EP 0308092	A	22-03-1989	US CA EP KR	4820201 A 1275713 C 0308092 A2 9704152 B1	11-04-1989 30-10-1990 22-03-1989 25-03-1997
US 6210230	B1	03-04-2001	TW	539307 Y	21-06-2003
EP 0952637	A	27-10-1999	US CA DE EP GB	6171143 B1 2269960 A1 69901756 D1 0952637 A1 2336723 A ,B	09-01-2001 24-10-1999 18-07-2002 27-10-1999 27-10-1999
EP 0508255	A	14-10-1992	US DE DE EP ES HK JP JP KR SG	5116230 A 69220831 D1 69220831 T2 0508255 A2 2104760 T3 1000374 A1 2617153 B2 5152038 A 9700287 B1 43097 A1	26-05-1992 21-08-1997 08-01-1998 14-10-1992 16-10-1997 06-03-1998 04-06-1997 18-06-1993 08-01-1997 17-10-1997
EP 0343561	A	29-11-1989	US CA DE DE EP EP ES JP JP	4889500 A 1298367 C 68920629 D1 68920629 T2 0343561 A2 0573078 A1 2066803 T3 2066860 A 2791099 B2	26-12-1989 31-03-1992 02-03-1995 18-05-1995 29-11-1989 08-12-1993 16-03-1995 06-03-1990 27-08-1998
US 5221215	A	22-06-1993	JP JP KR	2593974 B2 4229967 A 9404150 B1	26-03-1997 19-08-1992 13-05-1994
US 5975953	A	02-11-1999	NONE		
DE 9113003	U	11-06-1992	DE	9113003 U1	11-06-1992